



BLASTP 2.2.1 [Apr-13-2001]

Reference:

Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", *Nucleic Acids Res.* 25:3389-3402.

RID: 1003946835-11427-26633

Query=

(10 letters)

CATDIKGAEC) circular

Database: nr

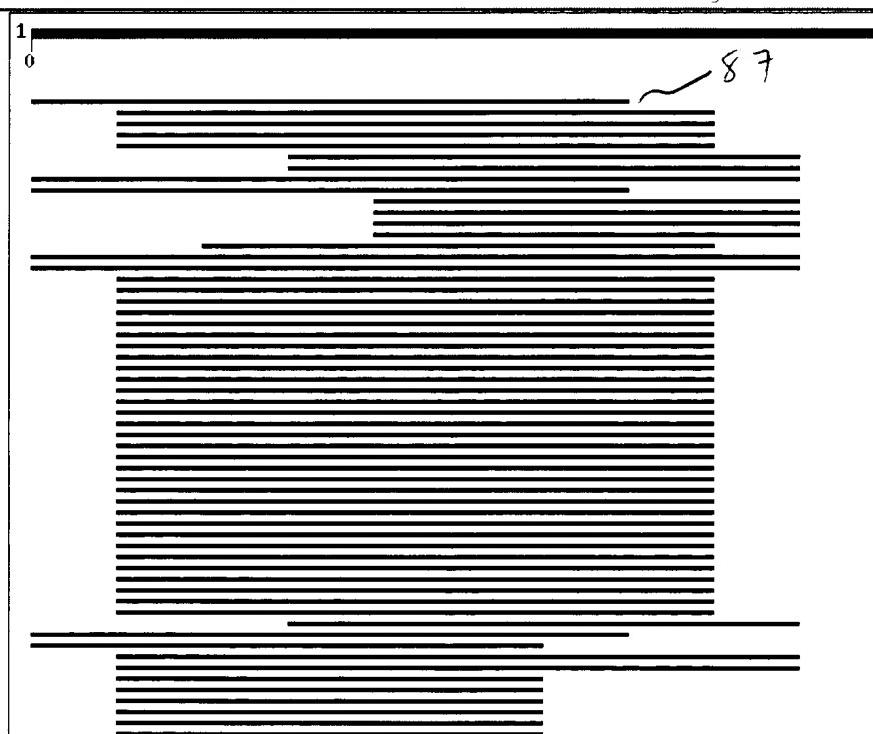
777,663 sequences; 247,121,334 total letters

If you have any problems or questions with the results of this search please refer to the [BLAST FAQs](#)

[Taxonomy reports](#)

Distribution of 100 Blast Hits on the Query Sequence

Mouse-over to show defline and scores. Click to show alignments



Score E

Sequences producing significant alignments:

(bits) Value

gi 9154_2 gb AAW7822.1 (U30293) T-cell receptor alpha V-J...	.24	181
gi 433_4 gb emb CA340813.1 (AF14730) putative zinc finger...	.23	326
gi 433_6 gb AAQ16456.1 (AF100053) outer surface protein23	316
gi 11010 sp P_0670 HGF_PRNA_ HETERO GROWTH FACTOR PREC...	.23	316
gi 60004 pir TBL1HRNA_ nerve growth factor beta chain precu...	.23	316
gi 34738 ref NP_147153.1 hypothetical protein NP_044981...	.23	316
gi 5000631 ref NP_147153.1 181 ribosomal protein S11P (rp...)	.23	316
gi 60004 ref NP_146647.1 4-methyl-5-(3-hydroxyethyl)-thi...	.23	434
gi 60004 ref NP_146647.1 4-methyl-5-(beta-hydroxyethyl) -...	.23	434
gi 11010 pir TBL1HRNA_ Nerve growth factor - sea squirt (...)	.23	434
gi 6000634 sp Q96447 HNL_ECOLI_ 4-METHYL-5-(3-HYDROXYETHYL) -...	.23	434
gi 6000634 ref NP_146647.1 4-methyl-5-(beta-hydroxyethyl) -...	.23	434
gi 42612 pdb 1RHE_B_ Chain B, Molecular Structure Of A Big...	.23	434
gi 11010 sp AAK0063.1 (AF037143) phosphatidylethanolam...	.22	354
gi 11010 sp AAK0063.1 AAK0063.1 Similar to na...	.21	353
gi 30531 ref NP_146637.1 nerve growth factor, beta [Mus21	753
gi 60004 pir TBL1HRNA_ nerve growth factor beta chain precu...	.21	753
gi 11010 sp AAW48154.1 (U36214) nerve growth factor [Gall...	.21	753
gi 11010 pir TBL1HRNA_ nerve growth factor beta chain precu...	.21	753
gi 60004 sp AAW48154.1 (U36214) nerve growth factor [Mus21	753
gi 11010 ref NP_146637.1 nerve growth factor, beta (frag...	.21	753
gi 11010 ref NP_146637.1 nerve growth factor, beta polyp...	.21	753
gi 11010 sp P11260 HGF_BOVIN_ BETA-NERVE GROWTH FACTOR PRE...	.21	753
gi 5000635 sp 1ISGYT_ Chain Y, Crystal Structure Of Ts Naf:...	.21	753
gi 4261770 sp P21617 HGF_XENLA_ NERVE GROWTH FACTOR PRECURSO...	.21	753
gi 11010 sp P10547 NGF_EAT_ BETA-NERVE GROWTH FACTOR PREC1...	.21	753
gi 11010 sp P10547 NGF_CHICK_ BETA-NERVE GROWTH FACTOR PREC...	.21	753
gi 60004 ref NP_146637.2 nerve growth factor, beta poly...	.21	753
gi 60004 ref NP_146637.1 beta-nerve growth fac...	.21	753
gi 11010 ref NP_146637.1 CHORISMATE SYNTHASE [Helicobac...	.21	753
gi 60004 ref NP_146637.1 beta-nerve growth fac...	.21	753
gi 11010 sp AAK0063.1 (AF037517) traumatin-1...	.21	753
gi 11010 sp Q96447 HNL_PIG_ BETA-NERVE GROWTH FACTOR PRECU...	.21	753
gi 11010 pir TBL1HRNA_ nerve growth factor beta chain precu...	.21	753
gi 11010 sp AAK0063.1 (U36214) truncated beta nerve gro...	.21	753
gi 11010 sp P01133 NGF_MOUSE_ BETA-NERVE GROWTH FACTOR PREC...	.21	753
gi 6000635 sp 1WWW_W_ Chain W, Ngf In Complex With Domain 3...	.21	753
gi 6000635 sp AAK0063.1 (AF037517) beta-nerve growth fac...	.21	753
gi 11010 sp AAK0063.1 (U36214) beta-nerve growth factor...	.21	753
gi 11010 pir TBL1HRNA_ nerve growth factor beta chain precu...	.21	753
gi 11010 pir TBL1HRNA_ perm protein - barley fragment - g...	.21	753
gi 11010 sp P10547 HGF_CAVPO_ BETA-NERVE GROWTH FACTOR PREC...	.21	753
gi 11010 sp AAK0063.1 (AF037517) beta-nerve growth fac...	.21	753
gi 11010 sp AAK0063.1 AF112681.1 (AM222682) beta nerve g...	.21	753
gi 1431715 sp 1PTGA_ Chain A, Crystal Structure Of Beta Ne...	.21	753
gi 6000635 sp AAK0063.1 AF112681.1 (AF145043) beta nerve g...	.21	753
gi 5760058 sp 1BET_ Beta-Nerve Growth Factor	.21	753
gi 15700913 sp AAW0874.1 (AF41156) nerve growth...	.21	753
gi 7237606 sp AAFS2_18.1 (AF003625) Spst2 gene product (Ero...	.21	1053
gi 15700914 ref NP_146636.1 truncated pilin [Neisseria men...	.21	1053
gi 15700914 sp AAK0063.1 (U36214) pilin [Neisseria gonorrh...	.21	1053
gi 15700914 sp AAK0063.1 (AF03625) pilus subunit [Neisser...	.21	1053
gi 15700914 sp AAK0063.1 (AF03625) protein tyrosine pho...	.21	1053
gi 4416107 sp AAK0063.1 (AF03625) beta-1,4-xyllosidase [L...	.21	1053
gi 23210011 sp AAK0063.1 (AF043651) pilus subunit [Neisser...	.21	1053
gi 11010 sp AAK0063.1 (AF037517) BC_01756 hypothetical21	1053
gi 11010 sp AAK0063.1 (U36214) pilin [Neisseria gonorrh...	.21	1053
gi 7_145311 sp AAK0063.1 (AF037517) CGIC961 gene product (...)	.21	1053
gi 11010 sp AAK0063.1 (AF037517) reverse tra...	.21	1053
gi 11010 sp AAK0063.1 (U36214) truncated pilin [Neisseria men...	.21	1053
gi 15700914 sp AAK0063.1 (U36214) pilin [Neisseria gonorrh...	.21	1053
gi 466411 sp AAK0063.1 (U36214) pilin [Neisseria gonorrh...	.21	1053
gi 2921601 sp AAC3e437.1 (AF14765) pilus subunit [Neisser...	.21	1053

gi 1281633 gb AAB02745.1	(U58941) pilin [Neisseria gonorrhoeae]	21	1058
gi 44161 gb ck AAA012345.1	(AF042040) beta-1,4-xylosidase [L...	21	1058
gi 44161 gb ck AAA012345.1	(L28740) pilin [Neisseria gonorrhoeae]	21	1058
gi 44161 gb ck AAA012345.1	(L28740) pilin [Neisseria gonorrhoeae]	21	1058
gi 1281633 gb ck AAA012345.1	(U58941) pilin [Neisseria gonorrhoeae]	21	1058
gi 1281633 pir S13607	nerve growth factor - monocled cobra ...	21	1058
gi 2F10.0 gb AF050011.1 AF050011	(AF273253) selenophospho... pilin	21	1058
gi 44161 gb ck AAA012345.1	(L28740) pilin [Neisseria gonorrhoeae]	21	1058
gi 1281633 gb ck AF21744.1	NGF NAKT - NERVE GROWTH FACTOR (NGF)	21	1058
gi 1281633 gb CK AF21744.1	(U58941) pilin [Neisseria gonorrhoeae]	21	1058
gi 44161 gb CK AF21744.1	NGF NAKT - NERVE GROWTH FACTOR (NGF)	21	1058
gi 1281633 gb CK AF21744.1	(U58941) pilin [Neisseria gonorrhoeae]	21	1058
gi 1281633 gb CK AF21744.1	nerve growth factor beta chain prec...	21	1058
gi 1281633 gb CK AF21744.1	(AF214084) envelope glycoprotein...	21	1058
gi 1281633 gb CK AF21744.1	(AF214084) membrane tyrosine phos...	21	1058
gi 1281633 gb CK AF21744.1	(M16002) gonococcal pilin protein ...	21	1058
gi 1472615 ref XP_001556.2	hypothetical protein XP_001556...	21	1058
gi 1561366 gb CK AF21744.1 AF21744.1	(AF21744.1) OFF154 [w...]	21	1058
gi 1561366 gb CK AF21744.1	(AF21744.1) selenophosphate synt...	21	1058
gi 44161 gb ck AAE3073.1	(AF042040) beta-1,4-xylosidase [L...	21	1058
gi 1561366 ref NP_001060.1	Glyceraldehyde-3-Dehydrogenase [Ch...	21	1058
gi 1561366 ref NP_007661.1	beta-1,4-xylosidase (EC 3.2.1....)	21	1058
gi 1281633 gb CK AF21744.1	(AF214084) pilus subunit [Neisseria...	21	1058
gi 1281633 ref NP_007432.1	hypothetical protein FLJ10016 (...)	21	1058
gi 1281633 gb CK AF21744.1	(AF214084) pilus subunit [Neisseria...	21	1058
gi 1281633 gb CK AF21744.1	(U58941) pilin [Neisseria gonorrhoeae]	21	1058
gi 1281633 gb CK AF21744.1	(AF214084) pilus subunit [Neisseria...	21	1058
gi 1561340 ref NP_041801.1	quinone oxidoreductase (Bacillu...	21	1058
gi 174162 pir S13607	nerve growth factor - <i>Maja maja</i> >gi 7...	21	1058
gi 1281633 gb CK AF21744.1	(U58941) pilin [Neisseria gonorrhoeae]	21	1058
gi 1281633 gb CK AF21744.1	NGF NAKT - NERVE GROWTH FACTOR (NGF)	21	1058
gi 1281633 ref NP_041801.1	putative beta-galactosidase [A...	21	14.0
gi 1281633 gb CK AF21744.1	DATDI GA D-ASPARAGINASE (L-ASPARAGINE...	21	14.0
gi 1281633 gb CK AF21744.1 AF169753	(AF169753) 20S proteas...	21	14.0
gi 1281633 gb CK AF21744.1	potassium channel protein Slo - fruit...	21	14.0
gi 1281633 ref NP_041801.1	unknown protein [Arabidopsis thaliana]	21	14.0
gi 1281633 gb CK AF21744.1	calcium-activated potassium channel, ...	21	14.0
gi 1281633 gb CK AF21744.1	(AJ01686) transcription factor ...	21	14.0

Alignments

gi|1281633|gb|CK|AF21744.1| (U58941) T-cell receptor alpha V-J junction [Homo sapiens]
Length = 116

Score = 24.5 bits (46), Expect = 161
Identities = 7/5 (62%), Positives = 7/8 (87%)

Query: 1 CATDIKDA 5

CATDI GA

Subject: 2 CATDITDA 3

gi|1281633|gb|CK|AF21744.1| (AF214790) putative zinc finger protein [Homo sapiens]
Length = 1167

Score = 21.7 bits (46), Expect = 526
Identities = 6/7 (86%), Positives = 6/7 (86%)

Query: 4 DIRGAET 10

DIRG EG

Subject: 49' DIRGATE 516

gi|1281633|gb|CK|AF21744.1| (AF16958) outer surface protein C precursor [Burkholderia sp]
Length = 111

Score = 21.7 bits (46), Expect = 526
Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 2 ATI¹KGAE 3
 ATI KGAE
 Sbjct: 164 ATI TKGAE 171

gi|128165|sp|P_0675 NGF PRANA BETA-NERVE GROWTH FACTOR PRECURSOR (BETA-NGF)
 Length = 241

Score = 22.7 bits (46), Expect = 326
 Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 2 ATI¹KGAE 3
 ATI KGAE
 Sbjct: 141 ATSIKNGE 146

gi|63054|pir|MNGTRB nerve growth factor beta chain precursor - multimammate rat (Mastomys natalensis)
gi|20251|gb|AAW40846.1| (M22743) nerve growth factor [Mastomys natalensis]
 Length = 303

Score = 22.7 bits (46), Expect = 326
 Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 2 ATI¹KGAE 3
 ATI KGAE
 Sbjct: 211 ATDIKGAE 218

gi|14712326|ref|XP_044985.1| hypothetical protein XP_044985 [Homo sapiens]
 Length = 663

Score = 22.7 bits (46), Expect = 326
 Identities = 6/7 (85%), Positives = 6/7 (85%)

Query: 4 DIKGAE 10
 DIKG AE
 Sbjct: 219 DIKGTEC 5. 5

gi|15668301|ref|NP_47159.1| SSU ribosomal protein S11P (rpsK) [Methanococcus jannaschii]
gi|1710779|sp|P54021 RS11 METJA 30S RIBOSOMAL PROTEIN S11P
gi|119031|pir|B64323 ribosomal protein S11 - Methanococcus jannaschii
gi|1530336|gb|AAE3171.1| (U67475) SSU ribosomal protein S11P (rpsK) [Methanococcus jannaschii]
 Length = 129

Score = 22.7 bits (46), Expect = 326
 Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 2 ATDI¹KGAE 3
 ATDI KAE
 Sbjct: 35 ATDITGAE 32

gi|1612334|ref|NP_406647.1| 4-methyl-5-(B-hydroxyethyl)-thiazol monophosphate biosynthesis enzyme [Yersinia pestis]
gi|1593111|emb|PACB407.1| (AJ41415) 4-methyl-5-(B-hydroxyethyl)-thiazol monophosphate biosynthesis enzyme [Yersinia pestis]
 Length = 146

Score = 22.3 bits (45), Expect = 438
 Identities = 6/6 (100%), Positives = 6/6 (100%)

Query: 2 IKGAET 10
 IKGAET
 Sbjct: 76 IKGAET 61

gi|1580014|ref|NP_286166.1| 4-methyl-5-(beta-hydroxyethyl)-thiazole monophosphate s

[Escherichia coli O157:H7 EDL933]
gi|15829732 ref|NP_308515.1| 4-methyl-5(beta-hydroxyethyl)-thiazole monophosphate synthetase [Escherichia coli O157:H7]
gi|12513210_gb|AAG54774.1|AE005221_11 AE005221| 4-methyl-5(beta-hydroxyethyl)-thiazole monophosphate synthetase [Escherichia coli O157:H7 EDL933]
gi|13356445_gb|BAE63301.1| (APD)02551| 4-methyl-5(beta-hydroxyethyl)-thiazole monophosphate synthetase [Escherichia coli O157:H7]
Length = 196

Score = 21.3 bits (45), Expect = 438
Identities = 6/6 (100%), Positives = 6/6 (100%)

Query: 5 IKGAEC 10
IKGAEC . . .
Sbjct: 78 IKGAEC 83

>gi|7527619_pir|T37101 Notch homolog protein - sea squirt (Halocynthia roretzii)
gi|3044867_gb|BAE7571.1| (ABUJ1327) HrNotch protein [Halocynthia roretzii]
Length = 2352

Score = 21.3 bits (45), Expect = 438
Identities = 7/10 (70%), Positives = 7/10 (70%), Gaps = 2/10 (20%)

Query: 1 CATEIKGAEC 10
CATEI . . .
Sbjct: 791 CATEIN--EC 796

>gi|6686341_sp|Q46246|THIT_ECOLI 4-METHYL-5(B-HYDROXYETHYL)-THIAZOLE MONOPHOSPHATE B ENZYME
Length = 196

Score = 21.3 bits (45), Expect = 438
Identities = 6/6 (100%), Positives = 6/6 (100%)

Query: 5 INGAEC 10
INGAEC
Sbjct: 76 INGAEC 81

>gi|16128429_ref|NP_414353.1| 4-methyl-5(beta-hydroxyethyl)-thiazole monophosphate synthetase [Escherichia coli K12]
gi|7423595_pir|H64771 hydroxymethylpyrimidine kinase (EC 2.7.1.49) - Escherichia coli
gi|1104871_gb|AAB67734.1| (U34313) Thic [Escherichia coli]
gi|1775183_gb|AAB40160.1| (U63664) 4-methyl-5(b-hydroxyethyl)-thiazole monophosphate biosynthesis protein [Escherichia coli]
gi|1785661_gb|AAC73527.1| (AE000148) 4-methyl-5(beta-hydroxyethyl)-thiazole monophosphate synthetase [Escherichia coli K12]
Length = 146

Score = 22.3 bits (45), Expect = 438
Identities = 6/6 (100%), Positives = 6/6 (100%)

Query: 5 IKGAEC 10
IKGAEC . . .
Sbjct: 78 IKGAEC 83

>gi|1342611_pdb|1HRC_B Chain B, Molecule: Structure Of A High Potential Cytochrome C Isolated From Rhodopila Globiformis
gi|1342611_pdb|1HRC_A Chain A, Molecule: Structure Of A High Potential Cytochrome C Isolated From Rhodopila Globiformis
Length = 106

Score = 23.3 bits (45), Expect = 438
Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 1 CATDIKGA 8

C TDIKGA
Sbjct: 22 CHTDIKGA 29

>gi|1458855|gb|AAK01629.1| (AY037148) phosphatidylethanolamine binding protein [Homo sapiens]
Length = 117

Score = 21.8 bits (44%), Expect = 588
Identities = 6/7 (85.7%), Positives = 7/7 (100%)

Query: A TDIKGAE
ATDIKGA
Sbjct: 116 ATDIKGAD 122

>gi|1801403|gb|AAH11123.1| (AAH11123) Similar to nerve growth factor, beta
Length = 124

Score = 21.4 bits (42%), Expect = 783
Identities = 7/8 (87.5%), Positives = 7/8 (87%)

Query: A ATDIKGAE
ATDIKG E
Sbjct: 215 ATDIKGKE 222

>gi|305313|ref|NP_036637.1| nerve growth factor, beta [Mus musculus]
gi|39053|pir|1NGMSMG nerve growth factor beta chain precursor - mouse
gi|31365|emb|CAA24111.1| (V00936) precursor of NGF [Mus musculus]
gi|390054|gb|AAA3P7L1.1| (M14805) nerve growth factor beta [Mus musculus]
gi|35771|gb|AAA3P7L6.1| (M17196) nerve growth factor [Mus musculus]
gi|35743|gb|AAA3P7L1.1| (M35715) nerve growth factor [Mus musculus]
gi|35743|gb|AAA3P7L1.1| (M01179) prepro-beta-nerve growth factor [Mus musculus]
gi|46713|gb|AAA3P7L7.1| (M17246) nerve growth factor [Mus musculus]
gi|25071|pirf|1NGF_14A nerve growth factor precursor [Mus musculus]
Length = 307

Score = 21.4 bits (42%), Expect = 783
Identities = 7/8 (87.5%), Positives = 7/8 (87%)

Query: A ATDIKGAE
ATEIKG E
Sbjct: 215 ATDIKGKE 222

>gi|63051|pir|1NGHUM nerve growth factor beta chain precursor - human (fragment)
gi|12363|pirf|1NGF_17A nerve growth factor beta [Homo sapiens]
Length = 286

Score = 21.4 bits (42%), Expect = 783
Identities = 7/8 (87.5%), Positives = 7/8 (87%)

Query: A ATDIKGAE
ATDIKG E
Sbjct: 194 ATDIKGKE 201

>gi|11244|gb|AAA48434.1| (M26810) nerve growth factor [Gallus gallus]
Length = 117

Score = 21.4 bits (42%), Expect = 783
Identities = 7/8 (87.5%), Positives = 7/8 (87%)

Query: A ATDIKGAE
ATDIKG E
Sbjct: 31 ATDIKGKE 38

>gi|34671|pir|A2631 nerve growth factor beta chain precursor - bovine (fragment)
gi|163420|gb|AAA30666.1| (M26809) nerve growth factor [Bos taurus]
Length = 125

Score = 21.4 bits (4%), Expect = 789
Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 2 ATDIKGAE 9

ATDIK; E

Sbjct: 33 ATDIKIKE 40

gi|3245742|sp|AAB261.0.21|S620P3 nerve growth factor [Mus sp.]
Length = 71

Score = 21.4 bits (4%), Expect = 789
Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 3 ATDIKGAE 9

ATDIK; E

Sbjct: 143 ATDIKIKE 156

gi|11453|pir|156570 beta-nerve growth factor - rat (fragment)
gi|105637|gb|FAR41c017.1| (M36589) beta-nerve growth factor [Rattus norvegicus]
Length = 147

Score = 21.4 bits (4%), Expect = 789
Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 4 ATDIKGAE 9

ATDIK; E

Sbjct: 153 ATDIKIKE 160

gi|4100191|ref|NP_00497.1| nerve growth factor, beta polypeptide; Nerve growth fac
[Homo sapiens]
gi|328161|sp|P01138|NGF_HUMAN BETA-NERVE GROWTH FACTOR PRECURSOR (BETA-NGF)
gi|13477|emb|CAA16510.1| (X63599) beta nerve growth factor (AA 1-241) [Homo sapiens]
gi|119203|gb|AAAF9311.1| (M21062) nerve growth factor beta [Homo sapiens]
gi|67138|emb|CAA24715.1| (V01811) beta-nerve growth factor [Homo sapiens]
Length = 161

Score = 21.4 bits (4%), Expect = 789
Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 5 ATDIKGAE 9

ATDIK; E

Sbjct: 143 ATDIKIKE 156

gi|3417417|sp|P13620|NGF_BOVIN BETA-NERVE GROWTH FACTOR PRECURSOR (BETA-NGF)
gi|118701|emb|CAA06759.1| (Y09566) beta-nerve growth factor [Bos taurus]
Length = 151

Score = 21.4 bits (4%), Expect = 789
Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 6 ATDIKGAE 9

ATDIK; E

Sbjct: 133 ATDIKIKE 146

gi|111618|spk|1SGF_Y Chain Y, Crystal Structure Of 7s Ngf: A Complex Of Nerve Grow
Factor With Four Binding Proteins (Serine Proteinases)
gi|111619|spk|1SGF_B Chain B, Crystal Structure Of 7s Ngf: A Complex Of Nerve Grow
Factor With Four Binding Proteins (Serine Proteinases)
Length = 116

Score = 21.4 bits (4%), Expect = 789
Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 7 ATDIKGAE 9

ATDIKG E
Sbjct: 28 ATDIKGKE 35

gi|4034770|sp|P21617|NGF_XENLA NERVE GROWTH FACTOR PRECURSOR (NGF)
Length = 131

Score = 21.4 bits (43), Expect = 789
Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 1 ATDIKGKE 3
ATDIKG E
Sbjct: 141 ATDIKGKE 146

gi|1351445|sp|P25477|NGF_PAT BETA-NERVE GROWTH FACTOR PRECURSOR (BETA-NGF)
Length = 141

Score = 21.4 bits (43), Expect = 789
Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 1 ATDIKGAE 9
ATDIKG E
Sbjct: 149 ATDIKGKE 156

gi|1181671|sp|P05200|NGF_CHICK BETA-NERVE GROWTH FACTOR PRECURSOR (BETA-NGF)
Length = 149

Score = 21.4 bits (43), Expect = 789
Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 1 ATDIKGAE 9
ATDIKG E
Sbjct: 150 ATDIKGKE 159

gi|35616174|ref|XP_002122.2| nerve growth factor, beta polypeptide [Homo sapiens]
gi|16150136|ref|XP_0053.1| hypothetical protein XP_0053.1 [Homo sapiens]
gi|5917605|gb|AAK5475.1|AF150960.1 (AF150960) nerve growth factor B [Homo sapiens]
gi|7018400|emb|ZAB7625.1| (AL049325) dJ662B22.1 (nerve growth factor, beta polypeptide [Homo sapiens])
Length = 141

Score = 21.4 bits (43), Expect = 789
Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 1 ATDIKGAE 9
ATDIKG E
Sbjct: 149 ATDIKGKE 156

gi|6819217|obj|BAV0438.1| (AB017518) beta-nerve growth factor [Pan troglodytes]
Length = 231

Score = 21.4 bits (43), Expect = 789
Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 1 ATDIKGAE 9
ATDIKG E
Sbjct: 149 ATDIKGKE 156

gi|1561175|ref|NP_223326.1| CHORISMATE SYNTHASE [Helicobacter pylori J99]
gi|1111148|sp|Q9ZLR1|AREC_HELPIC_CHORISMATE_SYNTHASE_(5-ENOLPYRUVYLSHIKIMATE-3-PHOSPHOSEPHOLYASE)
gi|7437231|pir|P71811|chorismate synthase - Helicobacter pylori (strain J99)
gi|4155160|gb|AAD00193.1| (AE001492) CHORISMATE SYNTHASE [Helicobacter pylori J99]
Length = 365

Score = 21.4 bits (43), Expect = 789

Identities = 6/7 (85%), Positives = 6/7 (85%)

Query: 4 DIKGAEC 1

DIKG EC

Sbjct: 303 DIKGNEC 315

gi|6815209|gb|BAK4639.1| (AB037519) beta-nerve growth factor (Gorilla gorilla)
Length = 315

Score = 11.4 bits (4%), Expect = 780

Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 1 ATDIKGAE 1

ATDIKG E

Sbjct: 144 ATDIKGKE 156

gi|14164981|gb|AAKhp325.1|AF355457_1| (AF355457) thaumatin-like protein TLP7 [Hordeum vulgare]
Length = 157

Score = 11.4 bits (4%), Expect = 780

Identities = 8/11 (73%), Positives = 8/11 (72%), Gaps = 3/11 (27%)

Query: 1 CATDI-KGAE 10

CATDI K EC

Sbjct: 145 CATDIK--EC 153

gi|2490147|sp|Q03004|NGF_PIG NGF PIG BETA-NERVE GROWTH FACTOR PRECURSOR (BETA-NGF)
gi|7136538|pir|346614| nerve growth factor B - pig (fragment)
gi|533771|gb|AAK1101.1| (L318) nerve growth factor B [Sus scrofa]
Length = 153

Score = 11.4 bits (4%), Expect = 780

Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 2 ATEIKGAE 3

ATDIKG E

Sbjct: 137 ATDIKGKE 144

gi|86363|pir|1A2631| nerve growth factor beta chain precursor - chicken (fragment)
gi|1334740|emb|CAA7433.1| (X04003) prepro-polypeptide (aa -123 to 118); gtg start
gallus]
Length = 141

Score = 11.4 bits (4%), Expect = 780

Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 2 ATDIKGAE 9

ATDIKG E

Sbjct: 157 ATDIKGKE 163

gi|8157159|gb|AAB341|4.2| (S76884) truncated beta nerve growth factor; beta-NGF [Homo sapiens]
Length = 163

Score = 11.4 bits (4%), Expect = 780

Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 2 ATDIKGAE 1

ATDIKG E

Sbjct: 28 ATDIKGKE 33

gi|128161|sp|P113|NGF_MOUSE BETA-NERVE GROWTH FACTOR PRECURSOR (BETA-NGF)
Length = 341

Score = 11.4 bits (4%), Expect = 780

Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 2 ATDIKGAE 9

ATDIKG E

Subject: 143 ATDIKGKE 156

>gi|127545|peb|1WWW W Chain W, Naf In Complex With Domain 5 Of The Trka Receptor

>gi|137544|peb|1WWW Y Chain Y, Naf In Complex With Domain 5 Of The Trka Receptor

>gi|09431|gb|J337380.1| (M30504) nerve growth factor [synthetic construct]

Length = 128

Score = 21.4 bits (43), Expect = 78%

Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 2 ATSIKGAE 9

ATSIKG E

Subject: 36 ATSIKGKE 36

>gi|w8151|aki|BAAKH440.1| (AB037520) beta-nerve growth factor [Pongo pygmaeus]

Length = 141

Score = 21.4 bits (43), Expect = 78%

Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 2 ATSIKGAE 9

ATSIKG E

Subject: 143 ATSIKGKE 156

>gi|3241|dbj|BAAD0008.1| (D00001C) beta-nerve growth factor [Gallus gallus]

>gi|3241|emb|BAAD0008.1| (X04067) pro-beta-nerve growth factor (aa 1-126) [Gallus

Length = 126

Score = 21.4 bits (43), Expect = 78%

Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 2 ATDIKGAE 9

ATDIKG E

Subject: 36 ATDIKGKE 4.

>gi|104144|pir|('S1448) nerve growth factor beta chain precursor - African clawed frog

>gi|54915|emb|CAA39149.1| (X55716) nerve growth factor prepropeptide [Xenopus laevis

Length = 128

Score = 21.4 bits (43), Expect = 78%

Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 2 ATDIKGAE 9

ATDIKG E

Subject: 143 ATDIKGKE 156

>gi|7442172|pir|T04370 perml protein - barley (fragment)

>gi|1451692|pir|AAE7159.1| (AF016327) Barperml [Hordeum vulgare]

Length = 126

Score = 21.4 bits (43), Expect = 78%

Identities = 8/11 (72%), Positives = 8/11 (72%), Gaps = 3/11 (27%)

Query: 1 CATDI-MGAEC 10

CATDI M EC

Subject: 133 CATDIITF--EC 131

>gi|12615|sp|P19094|NGF CAVPO BETA-NERVE GROWTH FACTOR PRECURSOR (BETA-NGF)

>gi|33036|pir|JL0017 nerve growth factor beta chain precursor - guinea pig

Length = 241

Score = 21.4 bits (43), Expect = 789
Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 2 ATDIKGAE 9
ATDIKG E
Sbjct: 14 ATDIKGKE 156

gi|631524|gb|BAA80437.1| (AB)37517) beta-nerve growth factor [Homo sapiens]
Length = 341

Score = 21.4 bits (43), Expect = 789
Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 2 ATDIKGAE 9
ATDIKG E
Sbjct: 14 ATDIKGKE 156

gi|696951|gb|AAF33720.1|AF222632| (AF222632) beta nerve growth factor [Macaca fus
Length = 319

Score = 21.4 bits (43), Expect = 789
Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 2 ATDIKGAE 9
ATDIKG E
Sbjct: 139 ATDIKGKE 146

gi|143171|pdb|IPTG_A| Chain A, Crystal Structure Of Beta Nerve Growth Factor At 2.5
Resolution In C2 Space Group With An Ions Bound
gi|143171|pdb|IPTG_B| Chain B, Crystal Structure Of Beta Nerve Growth Factor At 2.5
Resolution In C2 Space Group With An Ions Bound
gi|143171|pdb|IPTG_C| Chain C, Crystal Structure Of Beta Nerve Growth Factor At 2.5
Resolution In C2 Space Group With An Ions Bound
Length = 110

Score = 21.4 bits (43), Expect = 789
Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 2 ATDIKGAE 9
ATDIKG E
Sbjct: 10 ATDIKGKE 17

gi|656412|gb|AAF1435.1|AF145043| (AF145043) beta nerve growth factor [Cervus elaphus]
Length = 37

Score = 21.4 bits (43), Expect = 789
Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 2 ATDIKGAE 9
ATDIKG E
Sbjct: 10 ATDIKGKE 19

gi|576001|pdb|!BET| Beta-Nerve Growth Factor
Length = 107

Score = 21.4 bits (43), Expect = 789
Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 2 ATDIKGAE 9
ATDIKG E
Sbjct: 19 ATDIKGKE 16

gi|15705413|gb|AAL 5874.1|AF411526| (AF411526) nerve growth factor beta [Homo sapiens]
Length = 241

Score = 31.4 bits (43), Expect = 789
Identities = 7/8 (87%), Positives = 7/8 (87%)

Query: 3 ATDIWGAE 9
ATDIWGE E
Sbjct: 140 ATDIWGE 156

gi|1291606|gb|AAFS2916.1| (AE003628) Nps2 gene product [Drosophila melanogaster]
Length = 319

Score = 31.0 bits (43), Expect = 105+
Identities = 6/7 (85%), Positives = 6/7 (85%)

Query: 1 CATEIKG 7
CAIDI G
Sbjct: 100 CATEIKG 216

gi|15733184|ref|NP_295106.1| truncated pilin [Neisseria meningitidis Z2491]
gi|11277672|pir|FE2021 truncated pilin NMA0266 [imported] - Neisseria meningitidis
(group A strain Z2491)
gi|11277672|emb|QAB65574.1| (AL161752) truncated pilin [Neisseria meningitidis Z2491]
Length = 141

Score = 31.0 bits (43), Expect = 105+
Identities = 6/6 (100%), Positives = 6/6 (100%)

Query: 3 ATDIKNG 7
ATDIING
Sbjct: 144 ATDIING 59

Database: nr
Posted date: Oct 23, 2001 6:02 PM
Number of letters in database: 247,111,334
Number of sequences in database: 771,663

Lambda K H
0.355 0.169 1.81

Gapped Lambda K H
0.294 0.110 0.610

Matrix: PAM30
Gap Penalties: Existence: 3, Extension: 1
Number of Hits to DB: 7,356,637
Number of Sequences: 777663
Number of extensions: 59715
Number of successful extensions: 1516
Number of sequences better than 20000.0: 1509
Number of HSP's better than 20000.0 without gapping: 1509
Number of HSP's successfully gapped in prelim test: 0
Number of HSP's that attempted gapping in prelim test: 0
Number of HSP's gapped (non-prelim): 1516
Length of query: 19
Length of database: 247,111,334
Effective HSP length: 1
Effective length of query: 3
Effective length of database: 246,343,671
Effective search space: 2217093039
Effective search space used: 2217093039
T: 11
A: 40
X1: 14 (7.3 bits)
X2: 59 (14.6 bits)

X3: 58 (24.6 bits)
S1: 33 (18.7 bits)
S2: 33 (17.2 bits)